PROGRAMMABLE LED INDICATOR











- 4-digit, 14-segment LED indicator
- Input for mA, V, RTD, TC and potmeter
- 2 relays and analogue output
- Universal supply voltage
- Front key programmable



Application:

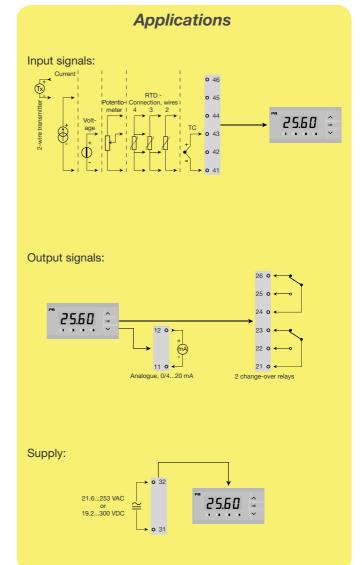
- Display for digital readout of current, voltage, temperature or 3-wire potentiometer signals.
- Process control with 2 potential-free relays and / or analogue output.
- For local readout in extremely wet atmospheres with a specially designed splash-proof cover.

Technical characteristics:

- 4-digit LED indicator with 13.8 mm 14segment characters. Max. display readout -1999...9999 with programmable decimal point, relay ON / OFF-indication.
- All operational parameters can be adjusted to any application by use of the front keys.
- Help texts in eight languages can be selected via a menu item.
- PReview 5714 is available fully-configured according to specifications ready for process control and visualisation.
- In versions with relay outputs the user can minimise the installation test time by activating / deactivating each relay independently of the input signal.

Mounting:

 To be mounted in front panel. The included rubber packing must be mounted between the panel cutout hole and the display front to obtain IP65 (NEMA 4) tightness. For extra protection in extreme environments, PReview 5714 can be delivered with a specially designed splash-proof cover as accessory.







Order: 5714

| Type | Version |
|------|----------|
| | Standard |

NB! Please order the splashproof cover seperately. Order no. 8335.

Electrical specifications:

Specifications range:

-20°C to +60°C

Common specifications:

Supply voltage, universal 21.6...253 VAC, 50...60 Hz

or 19.2...300 VDC

Consumption:

| Type | Internal consumption | Max consumption |
|-------|----------------------|-----------------|
| 5714A | 2.2 W | 2.5 W |
| 5714B | 2.7 W | 3.0 W |
| 5714C | 2.7 W | 3.0 W |
| 5714D | 3.2 W | 3.5 W |

Isolation voltage, test / operation..... 2.3 kVAC / 250 VAC Signal / noise ratio...... Min. 60 dB (0...100 kHz) Response time (0...90 %, 100...10 %), programmable: Temperature input...... 1...60 s

Current / voltage input...... 0.4...60 s Calibration temperature...... 20...28°C Accuracy, the greater of general and basic values:

| General values | | | |
|----------------|--------------------|--------------------------|--|
| Input type | Absolute accuracy | Temperature coefficient | |
| All | ≤ ±0.1% of reading | ≤ ±0.01% of reading / °C | |

| Basic values | | | |
|---------------------------------|-------------------|-------------------------|--|
| Input type | Basic accuracy | Temperature coefficient | |
| mA | ≤ ±4 µA | ≤ ±0.4 µA / °C | |
| Volt | ≤ ±20 µV | ≤ ±2 µV / °C | |
| Potentiometer | ≤ ±0.1 Ω | ≤ ±0.01 Ω / °C | |
| Pt100 | ≤ ±0.2°C | ≤ ±0.02°C / °C | |
| Ni100 | ≤ ±0.3°C | ≤ ±0.03°C / °C | |
| TC type: E, J, K, L, N, T, U | ≤ ±1°C | ≤ ±0.05°C / °C | |
| TC type: B, R, S, W3, W5, LR | ≤ ±2°C | ≤ ±0.2°C / °C | |

EMC immunity influence < ±0.5% of reading

Auxiliary supplies:

| 2 wire supply (pin 4645) | 2515 VDC / 020 mA |
|------------------------------|---------------------------------------|
| Wire size, pin 41-46 (max.) | 1 x 1.5 mm ² stranded wire |
| Wire size, others (max.) | 1 x 2.5 mm ² stranded wire |
| Relative humidity | < 95% RH (non cond.) |
| Dimensions (HxWxD) | 48 x 96 x 120 mm |
| Cutout dimensions | 44.5 x 91.5 mm |
| Tightness (mounted in panel) | IP65 |
| Weight | 230 g |

RTD and potentiometer input:

| Input | Min. | Max. | Standard |
|---------------|--------|--------|-----------|
| type | value | value | |
| Pt100 | -200°C | +850°C | IEC60751 |
| Ni100 | -60°C | +250°C | DIN 43760 |
| Potentiometer | 10 Ω | 100 kΩ | - |

Input for RTD types:

Pt10, Pt20, Pt50, Pt100, Pt200, Pt250, Pt300, Pt400, Pt500, Pt1000 Ni50, Ni100, Ni120, Ni1000

Cable resistance pr. wire, RTD (max.) $50~\Omega$ Sensor current, RTD...... Nom. 0.2 mA

Effect of sensor cable resistance (3- / 4-wire), RTD $< 0.002 \Omega / \Omega$

Sensor error detection, RTD...... Yes Short curcuit detection, RTD..... < 15 Ω

TC input:

| Туре | Min. value | Max. value | Standard |
|------|---------------|---------------|--------------|
| В | +400°C | +1820°C | IEC 60584-1 |
| E | -100°C | +1000°C | IEC 60584-1 |
| J | -100°C | +1200°C | IEC 60584-1 |
| K | -180°C | +1372°C | IEC 60584-1 |
| L | -200°C | +900°C | DIN 43710 |
| N | -180°C | +1300°C | IEC 60584-1 |
| R | -50°C | +1760°C | IEC 60584-1 |
| S | -50°C | +1760°C | IEC 60584-1 |
| T | -200°C | +400°C | IEC 60584-1 |
| U | -200°C | +600°C | DIN 43710 |
| W3 | 0°C | +2300°C | ASTM E988-90 |
| W5 | 0°C | +2300°C | ASTM E988-90 |
| LR | -200°C | +800°C | GOST 3044-84 |

Cold junction compensation (CJC) via internally mounted sensor...... < ±1.0 °C Sensor error detection, all TC types.. Yes Sensor error current: when detecting...... Nom. 2 µA else 0 μA

Current input:

Measurement range -1...25 mA Program. measurement ranges....... 0...20 and 4...20 mA Input resistance...... Nom. 20 Ω + PTC 25 Ω Sensor error detection:

loop break 4...20 mA Yes

Voltage input:

Measure range..... -20 mV...12 VDC Program. measurement ranges...... 0...1 / 0,2...1 / 0...10 / 2...10 VDC Input resistance...... Nom. 10 M Ω

Outputs:

Display:

Display readout -1999...9999 (4 digits) Decimal point Programmable Digit height 13.8 mm Display updating...... 2.2 times / s Input outside input range is indicated by..... Explanatory text

Current output:

Signal range (span)..... 0...20 mA Programmable signal ranges..... 0...20 / 4...20 / 20...0 / 20...4 mA Load stability \leq 0.01% of span / 100 Ω Sensor error detection...... 0 / 3.5 / 23 mA / none NAMUR NE 43 Upscale 23 mA NAMUR NE 43 Downscale...... 3,5 mA Output limitation:

on 4...20 and 20...4 mA signals ... 3,8...20.5 mA on 0...20 and 20...0 mA signals ... 0...20.5 mA Current limit ≤ 28 mA

Relay outputs:

..... Setpoint Relay function..... Hysteresis, in % / display counts..... 0.1...25% / 1...2999 On and Off delay 0...3600 s Sensor error detection...... Make / Break / Hold Max. voltage...... 250 VRMS Max. current 2 A / AC Max. AC power..... 500 VA Max. current at 24 VDC 1 A

Marine approval:

Det Norske Veritas, Ships & Offshore. Stand. for Certific. No. 2.4

GOST R approval:

VNIIM, Cert. No. Ross DK.ME48.V01899

Observed authority requirements: Standard: EMC 2004/108/EC

Emission and immunity..... EN 61326 LVD 73/23/EEC..... EN 61010-1 UL, Standard for Safety...... UL 508